

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/001971

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H05B41/282 H05B41/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 529 551 A (DIEHL GMBH & CO) 3 March 1993 (1993-03-03) abstract column 2, line 1 - column 2, line 13 column 5, line 3 - column 5, line 15; figure 1	1-10,12, 14
X	EP 0 374 617 A (HELLA KG HUECK & CO) 27 June 1990 (1990-06-27) column 13, line 1 - column 13, line 23; figure 3	1-10,12, 14
X	US 5 239 234 A (PISCHKE JUERGEN ET AL) 24 August 1993 (1993-08-24) column 1, line 64 - column 2, line 2; figure 1	1,3,5

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

### \* Special categories of cited documents :

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Date of the actual completion of the international search

16 November 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 10, 8 October 2003 (2003-10-08) & JP 2003 173889 A (HARISON TOSHIBA LIGHTING CORP), 20 June 2003 (2003-06-20) abstract	1-15
X	JP 2001 217090 A (USHIO INC) 10 August 2001 (2001-08-10) figure 11b	1-15
X	US 4 633 141 A (WEBER PAUL J) 30 December 1986 (1986-12-30) column 1, line 16 - column 2, line 18; figures 1,9	1-11
A	US 2002/093295 A1 (OKAMOTO MASASHI ET AL) 18 July 2002 (2002-07-18) paragraphs '0013!, '0017!, '0018!, '0033! - '0035!, '0045!, '0046!; figures 2,3	1,11,12, 15
A	DE 101 15 279 A (TOSHIBA LIGHTING & TECHNOLOGY) 18 October 2001 (2001-10-18) paragraphs '0041! - '0045!; figure 1	1-15
A	DE 198 39 336 A (PATRA PATENT TREUHAND) 9 March 2000 (2000-03-09)	
A	EP 1 176 853 A (USHIO DENKI KABUSHIKI KAISYA) 30 January 2002 (2002-01-30)	

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/FR2004/001971

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0529551	A	03-03-1993	DE EP US	4128314 A1 0529551 A1 5298836 A	04-03-1993 03-03-1993 29-03-1994
EP 0374617	A	27-06-1990	DE DE EP	3843029 A1 58907403 D1 0374617 A2	28-06-1990 11-05-1994 27-06-1990
US 5239234	A	24-08-1993	DE WO EP JP	3925993 A1 9102442 A1 0485400 A1 4507167 T	07-02-1991 21-02-1991 20-05-1992 10-12-1992
JP 2003173889	A	20-06-2003		NONE	
JP 2001217090	A	10-08-2001	JP	3539329 B2	07-07-2004
US 4633141	A	30-12-1986	EP JP JP WO	0214153 A1 7101636 B 62502009 T 8605304 A1	18-03-1987 01-11-1995 06-08-1987 12-09-1986
US 2002093295	A1	18-07-2002	JP EP TW	2002216993 A 1330144 A2 543075 B	02-08-2002 23-07-2003 21-07-2003
DE 10115279	A	18-10-2001	JP JP JP CN DE US	2001284079 A 2001326090 A 2002231478 A 1319878 A 10115279 A1 2002011807 A1	12-10-2001 22-11-2001 16-08-2002 31-10-2001 18-10-2001 31-01-2002
DE 19839336	A	09-03-2000	DE CA CN WO EP HU JP TW US	19839336 A1 2341854 A1 1325608 T 0013204 A2 1108347 A2 0103264 A2 2002525810 T 469754 B 6353294 B1	09-03-2000 09-03-2000 05-12-2001 09-03-2000 20-06-2001 28-11-2001 13-08-2002 21-12-2001 05-03-2002
EP 1176853	A	30-01-2002	WO EP US	0130120 A1 1176853 A1 6369519 B1	26-04-2001 30-01-2002 09-04-2002